MIZORAM PUBLIC SERVICE COMMISSION

GENERAL COMPETITIVE EXAMINATIONS FOR RECRUITMENT TO THE POST OF JUNIOR GRADE OF MAH & VS (VETERINARY OFFICER) (CONTRACT) UNDER ANIMAL HUSBANDRY AND VETERINARY SCIENCE DEPARTMENT NOVEMBER, 2021

AH & VETY PAPER - I

Γime Allowed: 2 hours	Full Marks : 200
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All questions carry equal marks of 2 each. Attempt all questions.							
1. Zebu Breed of Cattle involved in the development of Karan fries is –							
(a)	Sahiwal	(b)	Red Sindhi				
(c)	Ongole	(d)	Tharparkar				
2. Merino is a –							
(a)	Fur type	(b)	Indian breed				
(c)	Fine wool type	(d)	Cross breed				
3. Nee	dle teeth –						
(a)	Incisor teeth	(b)	Premolar teeth				
(c)	Canine teeth	(d)	Molar teeth				
4. Mill	k fat % of yak –						
(a)	6 - 10	(b)	1 - 2				
(c)	3 - 5	(d)	11 - 14				
5. Hau	gh unit measures –						
(a)	Quality of albumen	(b)	Shape index of the eggs				
(c)	Quality of yolk	(d)	Strength of egg				
6. Max	timum tolerable level of ammonia in poultry she	ed –					
(a)	50 ppm	(b)	120 ppm				
(c)	180 ppm	(d)	20 ppm				
7. A bi	reed of chicken with black meat –						
(a)	Kadaknah	(b)	Cornish				
(c)	Australorp	(d)	Aseel				
8. A bi	reed of chicken with Pea comb –						
(a)	White Leghorn	(b)	Australorp				
(c)	Brahma	(d)	Rhode Island Red				
9. Number of air sacs present in chicken –							
(a)	6	(b)	9				
(c)	7	(d)	8				
10. The	toxic amino acid present in Subabul leaves –						
(a)	Acetic acids	(b)	Mimosin				
(c)	Picric acid	(d)	Hydrocynic acid				

11.	The 1	toxic factor present in Hybrid Napier is –		
	(a)	Mimosine	(b)	Oxalates
	(c)	Saponin	(d)	Nitrate
12.	A fly	in which the males have half the chromosom	e num	ber as that of the females -
	(a)	Butterfly	(b)	Honey bee
	(c)	Drosophila	(d)	None
13.	DNA	proof reading enzyme is –		
	(a)	Helicase	(b)	DNA ligase
	(c)	DNA Gyrase	(d)	Polymerase III
14.	Hete	rosis is F ₁ generation is equal to –		
	(a)	Sdy^2	(b)	Sd^2y^2
	(c)	Sdy^3	(d)	Sd^3y^3
15.	The	father of Modern Animal Breeding –		
	(a)	J.L. Lush	(b)	R.X.Fisher
	(c)	Meischer	(d)	Robert Bakewell
16.	The	eDNA library is –		
	(a)	the entire collection of CDNA from a particular	ular po	pulation of mRNA
	(b)	the collection of mRNA from DNA		
	(c)	clones carrying genomic DNA		
	(d)	a partial genomic DNA library		
17.	Mati	ng of animals with similar phenotype is called	.—	
	(a)	Incrossing	(b)	Assortative mating
	(c)	Random mating	(d)	Inter-se-mating
18.	The 1	most frequently occurring observation in a se	t of da	ta is –
	(a)	Median	(b)	Mean
	(c)	Mode	(d)	Variance
19.	In po	ultry heterogametic sex is –		
	(a)	Male	(b)	Female
	(c)	Both	(d)	Cock
20.	Seco	nd quartile is –		
	(a)	Mean	(b)	Median
	(c)	Mode	(d)	Geometric mean
21.	Hete	rosis is due to –		
	(a)	Dominance	(b)	Additive gene action
	(c)	Non additive gene action	(d)	Epistasis
22.	Inbre	eeding increases the number of	in a p	opulation.
	(a)	Homozygous alleles	(b)	Heterozygous alleles
	(c)	Hemizygous alleles	(d)	Lethat alleles
23.	Inbre	eding coefficient of an offspring of half-sib m	ating	is –
	(a)	2/1	(b)	1/4
	(c)	1/2	(d)	1/8

24.	Hiss	ardale is evolved from –		
	(a)	Bikaneri X Merino	(b)	Gaddi X Merino
	(c)	Nilgiri X Merino	(d)	Nili-Ravi X Merino
25.	The	statistical design which allows unequal number	ofre	eplications of treatment is –
	(a)	CRD	(b)	RBD
	(c)	LSD	(d)	Switch over design
26.	The	test of choice for comparing two variances is –	-	
	(a)	T test	(b)	Chi-square test
	(c)	F test	(d)	Z test
27.	Whi	ch memory of the computer stores program to	be cu	rrently executed?
		ROM		PROM
	(c)	RAM	(d)	All of these
28.	The	dose of the drug which can kill 50% of the pop	ulati	on is –
		ED50		LC50
	(c)	EC50	(d)	LD50
29.	Exce	ess intake of unsaturated fatty acids may cause	a def	iciency of –
		Vitamin E		Vitamin A
	(c)	Thiamin	(d)	Vitamin K
30.	Mini	mum ME requirement for broiler starter feed (keal	/kg) as per BIS –
	(a)	2700	(b)	2600
	(c)	2800	(d)	2900
31.	Whic	ch of the following vitamin is destroyed by oxid	ation	?
	(a)	Vitamin D	(b)	Vitamin A
	(c)	Biotin	(d)	Thiamin
32.	In Va	an Soest method of analysis, we can determine	the h	emicelluloses as –
	(a)	NDF - ADF	(b)	ADF – Lignin
	(c)	ADF – Cellulose	(d)	None of these
33.	A su	gar containing b D-galactosidic linkage –		
	(a)	Sucrose	(b)	Cellobiose
	(c)	Lactose	(d)	Maltose
34.	Mine	eral which activates enzyme transferring phospl	hate f	From ATP –
	(a)	Magnesium	(b)	Calcium
	(c)	Phosphorus	(d)	Manganese
35.	The	minimum crude protein content in compounde	ed cat	ttle feed (grade I) as per BIS –
	(a)	20%	(b)	18%
	(c)	22%	(d)	24%
36.	Best	method among the following for removing afla	toxin	in feed –
	(a)	Heating	(b)	Washing
	(c)	Drying in hot air oven	(d)	Drying in sunlight

37.	Curled toe paralysis in chicks is caused by the deficiency of the Vitamin –			
	(a)	B_1	(b)	B_2
	(c)	B_{6}	(d)	B ₁₂
38.	Whit	e muscle disease in calves is caused by deficie	ncy	of –
	(a)	Vitamin A & Maganese	(b)	Vitamin E & Selenium
	(c)	Essential fatty acids	(d)	Copper
39.	Avid	in is antivitamin for –		
	(a)	Thiamine	(b)	Biotin
	(c)	Menadione	(d)	Folic acid
40.	The g	greenish yellow colour of whey is due to –		
	(a)	Carotene	(b)	Thiamine
	(c)	Riboflavin	(d)	Xanthophyll
41.	Steel	y or Stringy wool in sheep results from deficie	ncy c	of –
	(a)	Cobalt	(b)	Copper
	(c)	Mangenese	(d)	Iron
42.	Anti	infective vitamin –		
	(a)	Vitamin C	(b)	Vitamin D
	(c)	Vitamin A	(d)	Vitamin E
43.	Pecti	n present in cell wall is a –		
	(a)	Hetero polysaccharide	(b)	Trisaccharide
	(c)	Pentasaccharide	(d)	Mucopolysaccharide
44.	Goss	ypol is found in –		
	(a)	Cotton seed	(b)	Mustard seed
	(c)	Linseed	(d)	Sesame seed
45.	In the	e process of hay making much of carotene is le	ost dı	ue to –
	(a)	Leaching	(b)	Bleaching
	(c)	Storage in shade	(d)	Lactic acid production
46.	Good	d quality silage can be make from green fodder	r con	taining a dry matter percent of –
	(a)	30-35	(b)	40-45
	(c)	15-20	(d)	80-85
47.	Antii	metabolite of vitamin K is –		
	(a)	Tannic acid	(b)	Avidin
	(c)	Menaquinone	(d)	Warfarin
48.	Flush	ning is practiced –		
	(a)	During pregnancy	(b)	After parturition
	(c)	Before breeding	(d)	During growth
49.	Brow	vnish discolouration of fresh meat is due to –		
	(a)	Metmyoglobin	(b)	Oxymyoglobin
	(c)	Myoglobin	(d)	Haemoglobin

50.	Whit	e spot in chilled carcasses are produced by the	e gro	wth of –
	(a)	Sporotrichum sp.	(b)	Pseuhomonas sp.
	(c)	Aspergillus sp.	(d)	Penicillium sp.
51.	The	permissible level of Nitrite in cured meat is –		
	(a)	200 ppm	(b)	40 ppm
	(c)	156 ppm	(d)	500 ppm
52.	Pink	rot in egg is caused –		
	(a)	Alkaligenes Sp.	(b)	Staphylococcus Sp.
	(c)	Mucor Sp.	(d)	Pseudomonas Sp.
53.	Q-fe	ver is caused by organism –		
	(a)	Coxeilla burnellii	(b)	Streptococcus ubereis
	(c)	Brucella abortus	(d)	Microbacterium buberculosis
54.	CAN	IP test is –		
	(a)	To detect mastitis	(b)	To find S. Agalactiae in milk
	(c)	To confirm the Staphylococcus aureus in milk	(d)	
55.		IARK means –		
	(a)	Agricultural Marketing	(b)	Agricultural Marking
	. ,	Agricultural Mark	` ′	Agriculture Market
56.	. ,	ngs prepared from large intestines of cattle and	` ,	
		Weasand		Runners
	` /	Middles	` ′	Rounds
57.	Exan	nple of fermented sausage –	` '	
		Frankfurter	(b)	Mortadella
	(c)	Breakfast sausage	` ′	Kielbas
58.	` ′	k rots is a bacterial spoilage condition of egg c	` /	
		Proteus spp		Pseudomonas spp
		Aeromonas spp		All of these
59.		orne organisms in a meat plant/abattoir are disi	` ′	
		Foaming		Soaking
	()	Surfing	` ′	Fogging
60.	` '	for finding the mixing of the cow and buffalo m	` ′	
00.		COB test		Baudauin test
	` /	Hansa test	` ′	Alizarin test
61	` /	o organism causing ropiness in milk is –	(-)	
01.		Alcaligenes viscolactis	(b)	Bacillus subtilis
		Streptococcus thermophilus	` ′	Lactobacillus acidophilus
62	. ,	od lard has an iodine value of –	(4)	2 weing weinopining
UZ.	(a)		(b)	46
	(c)		` ′	66
	(\mathbf{c})		(4)	

63.	True s	sweetbread is actually –		
	(a)	Pancreas	(b)	Thymus
	(c)	Thyroid	(d)	Pituitary
64.	Halot	hane test is widely used to identify –		
	(a)	Incomplete bleeding	(b)	Meat spoilage
	(c)	Stress susceptibility of pigs	(d)	Bruises
65.		tity demanded <i>(Q)</i> is expressed as a mathemathus be written as –	tical	function of price (P). The demand function
	(a)	Qd = a + bP	(b)	Qd = a - bP
	(c)	Qd = bp - a(2)	(d)	Qd = bP + a(2)
66.	When	n change in price of X causes a direct change i	n qua	antity Y –
	(a)	$E_c=0$	(b)	E _c =Positive
	(c)	E _c =Negative	(d)	None
67.	A bus	iness that is chartered or registered by the statrs.	e and	that operates separately from the owner or
	(a)	Public Limited Company	(b)	Private Company
	(c)	Corporation	(d)	Cooperatives
68.	The c	hange in total product resulting from the use o	fone	additional unit of the variable factor.
	(a)	Total Physical Product (TPP)	(b)	Average Physical Product (APP)
	(c)	Marginal Physical Product (MPP)	(d)	Equilibrium price
69.	Costs	paid in cash is –		
	(a)	Explicit cost	(b)	Implicit cost
	(c)	Sunk cost	(d)	Opportunity cost
70.	Dema	and is <i>inelastic</i> if the percentage change in qua	ntity	is less than the percentage change in price-
	(a)	E > 1	(b)	E ≠ 1
	(c)	E = 1		E < 1
71.	()	. L. Brayne is associated with –	()	
, 10		Marthardam Project	(b)	Gurgaon Project
		Sevagram attempt	(d)	Etawah pilot project
72.	` /	nayat Raj started on –	()	1 1 3
•		2 nd October 1959	(b)	2 nd October, 1956
	` ′	2 nd October, 1949	(d)	2 nd October, 1953
73.	` '	gical requirements for human survival come ur	nder -	•
		safety need		Physiological needs
		Esteem needs	(d)	Self-actualization needs
74.	` /	vas constitutionalized through the –	()	
		73 rd Constitutional Amendment Act, 1992	(b)	Article 21 G of the Indian Constitution
		75 th Constitutional Amendment Act, 1992	(d)	Article 25 G of the Indian Constitution
75	` /	umber of elements in a learning situation are –	()	
	(a)	<u> </u>	(b)	4
	\ /		\ /	
	(c)	5	(d)	6

76.	Who	is considered as father of statistics?		
	(a)	RA Fisher	(b)	Pearson
	(c)	AL Bowley	(d)	Boddington
77.	Shor	ting of unlike lots of the produce into different.	t lots	s according to the quality specification laid
	(a)	Standardization	(b)	Grading
	(c)	Both (a) & (b)	(d)	None of these
78.	The	region most conducive to effective interpersona	l rela	tionships and communications is termed as-
	(a)	Facade	(b)	Arena
	(c)	Blind spot	(d)	All of these
79.	Degr	ee to which an innovation is perceived as being	gcons	sistent with the existing values is –
	(a)	Relative advantage	(b)	Complexity
	(c)	Compatibility	(d)	All of these
80.	"If I	have to get that gold medal, I should work har	d at s	studies". reflects –
	(a)	Determination	(b)	Intrinsic motivation
	(c)	Industriousness	(d)	Extrinsic motivation
81.	The	cone of experience was developed by –		
	(a)	Egder Dale	(b)	Berlo C K
	(c)	Kuldeep Nair	(d)	S C Parmer
82.	Sean	nan A Knapp conducted result demonstration i	n –	
	(a)	Cotton	(b)	Maize
	(c)	Barley	(d)	Wheat
83.	Read	ling newspaper is –		
	(a)	Intra personal communication	(b)	Interpersonal communication
	(c)	Mass communication	(d)	Dyadic communication
84.	Agri	culture was made a state subject through –		
	_	Government of India Act (1919)	(b)	Royal Commission Report (1928)
	(c)	Ford Foundation Report (1959)	(d)	GMF (enquiry report (1955)
85.	Inten	sive Cattle Development Project was launched	l in –	
		1969 - 70		1975 - 76
	(c)	1964 - 65	(d)	1980 - 81
86.	The	constitutional amendment made to ensure free	and c	compulsory education to all children –
		86 th Amendment		74 th Amendment
		73 rd Amendment	` ′	92 nd Amendment
87.	On I	CAR 93^{rd} foundation day-2021 the Governmentated with –	` ′	
		Digital platform	(b)	Right information right time
		Regional language		All of these
88.	` /	animals, which of the following teeth are used	` /	
50.		Incisor of lower jaw		Incisor of upper jaw
	` ′	Canine of lower jaw	(d)	• • •
	(-)	J-···	(-)	F F J · ·

89.	. If, 4 rings are present in horn of cattle, find out the age of same cattle –				
	(a)	6 years	(b)	4 years	
	(c)	5 years	(d)	8 years	
90.	Walle	owing is necessary for –			
	(a)	Buffalo & Pig	(b)	Buffalo & Goat	
	(c)	Cattle & Buffalo	(d)	Buffalo & Sheep	
91.	Disir	nfectant of choice at the time of FMD outbreak	<u> </u>		
	(a)	4% NaOH	(b)	5% NaCl	
	(c)	КОН	(d)	НСОН	
92.	Calf	starter should be introduced from –			
	(a)	1st week	(b)	2 nd week	
	(c)	3 rd week	(d)	4 th week	
93.	Calci	ium requirement (BIS 1992) in adult layer ratio	n is-	_	
	(a)	1%	(b)	2%	
	(c)	3%	(d)	4%	
94.	Light	t requirement for layer bird is –			
	(a)	16 hrs	(b)	23 hrs	
	(c)	10 hrs	(d)	18 hrs	
95.	Whic	ch of the following statement is not correct with	ı resp	pect to loose housing?	
	(a)	Loose housing is cheaper in construction	(b)	Loose housing is labour saving	
	(c)	Cow tends to remain cleaner in loose housing	(d)	Heat detection is easier in loose housing	
96.	Adva	antages of face out housing are all except –			
	(a)	Less danger of spread of disease	(b)	Clearing and milking takes less time	
	(c)	Feeding of cows takes more time	(d)	Total time spent on animal comparatively more	
97.		breeds are migratory in nature and a	re ma	aintained on low input cost.	
	(a)	Kankerj	(b)	Gangotri	
	(c)	Lakhimi	(d)	Belahi	
98.	Long	and pendulous ears folded like a leaf. Ears had	ng al	I the time and their inside face forward.	
	(a)	Red sindhi	(b)	Kankrej	
	(c)	Gir	(d)	Bachur	
99.	High	producing dairy cows need to rest daily for a	perio	od of –	
	(a)	12-14 hours	(b)	10-12 hours	
	(c)	8-10 hours	(d)	6-8 hours	
100.	Musc	ele contraction is due to formation of –			
	` ′	Myosin	` ′	Actin	
	(c)	Actomysin	(d)	Myofilament	

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